# **Quan Tran Hong**

Kajaani, Finland

**in** quan2381

**Biography:** Strong foundation in software engineering, now interest expanding into machine learning, computer vision, and 3D Data processing. Seeking a Machine Learning Engineer / Al Software Engineer role where I can apply my expertise in backend system design and AI-driven solutions to build innovative applications.

## Education

## Open Institute of Technology,

Master's Degree in Responsible Artificial Intelligence

- Accumulated GPA (First Semester): 4.0/4.0
- Relevant Coursework: Computer Vision, Machine Learning, Natural Language Processing, Data Analytics and Visualization

**Auckland University Of Technology,** 

Bachelor of Computer and Information Science

- Dual Degree Program with Ho Chi Minh University of Science

Sept 2024 - Present

Remote

Sept 2019 - Aug 2023

**Vietnam** 

## **Experience** \_

#### Fullerton Health Group, Middle Software Engineer

- Led a team of three junior developers on internal projects, delivering the Claims Portal.
- · Migrated raw SQL statements to ORM Sequelize, significantly improving query performance two times.
- Apply back-end coding standards and testing practices to team, mentoring team members to improve code maintainability and readability.
- · Designed and implemented server-side large functionalities, such as automated email notifications and PDF claims file exports.

#### **South Asia Services**, Junior Full-stack Engineer

- Redesigned the backend system by migrating from ExpressJS to NestJS microservices, improving scalability for handling 100K+ requests/day.
- · Redesigned the Oracle SQL database schema, optimizing relationships and improving guery performance, reduced guery execution time from 1s to 100ms.
- · Developed comprehensive authentication and authorization features using Keycloak, integrating single sign-on (SSO) capabilities and role-based access control (RBAC).
- Implemented functional UI components using React, focusing on integrating data fetching and state management with React Query, and transitioned from Redux storage.
- · Collaborated with stakeholders to gather requirements, conduct sprint planning, and refine project deliverables. Actively participated in code reviews and maintained documentation to ensure high code quality standards.

#### **Zigvy Corporation**, Intern/ Fresher Frontend Engineer

- Design and integrate UI/UX elements and apply new UI functionalities into deployed projects.
- · Maintained and improved operational efficiency of the HR Forte project, managing employee information and payroll systems.
- Developed and implemented a customization column feature in the dashboard, empowering users to generate Excel reports based on their specific requirements.

Hybrid, Vietnam

Feb 2023 - Oct 2023

Remote, Vietnam

Dec 2021 - Feb 2023

**Onsite, Vietnam** April 2021 - Oct 2021

## Technical Skills

#### **Data Science:**

- Proficient in data manipulation and analysis with NumPy and Pandas.
- Experience with data visualization tools like Matplotlib and Tableau.
- Familiar with machine learning frameworks including Scikit-Learn, PyTorch, and TensorFlow.
- Understanding of MLOps practices for building AI application pipelines.
- Knowledge in 3D data processing and analysis, with familiarity in libraries such as Open3D, PyTorch3D, or Colmap.

## **Programming Languages:**

- Proficient in Python, JavaScript, and TypeScript.
- Minor working knowledge of Go, Java, and C++.

## **Backend Development:**

- Skilled in developing RESTful APIs and server-side applications using NestJS and Express.
- Extensive experience with relational databases (PostgreSQL, MySQL) and NoSQL databases (MongoDB).
- Proficient in ORM tools including Sequelize, Prisma, and Mongoose.
- Competent in writing unit tests using Jest.

### **Frontend Development:**

- Experience in building UI/UX components and functionality with React.
- Familiar with build tools like Vite and Webpack.
- Experience with styling using SCSS and UI component libraries like Ant Design and Material-UI.

#### **Cloud and DevOps:**

- Experience deploying applications on AWS services including EC2, S3, and Lambda.
- Proficient with Docker for containerizing applications.
- Hands-on experience setting up CI/CD pipelines using tools like GitHub Actions and Jenkins.

# **Certifications & Training**

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ite (Class of 2024) and Artificial Intelligence program	Remote - link ☑
g Bootcamp, Ho Chi Minh City ck Website Javascript over 6-month period	Onsite - link 🗹
ioner	AWS certified - link 🗹
n - DeepLearning.Al	Cousera - link 🗹
nal Certificate	Cousera - link 🗹
S Program Certificate	WorldQuant - link 🗹